

5.4L 3V AND 6R80 TRANSMISSION—HARSH COASTING 2-1 DOWNSHIFT BUMP FELT AT OR BELOW 12 KM/H (8 MPH)

TSB 11-8-12

FORD:

2009-2010 F-150
2009-2011 Expedition

LINCOLN:

2009-2011 Navigator

ISSUE

Some 2009-2011 Expedition, Navigator and 2009-2010 F-150 vehicles equipped with 5.4L 3V engine and 6R80 transmission may exhibit a bump feel during a low speed coasting downshift at speeds at or below 12 Km/h (8 MPH).

ACTION

Follow the Service Procedure steps to correct the condition.

SERVICE PROCEDURE

1. Install Integrated Diagnostic System (IDS)/Portable Diagnostic Software (PDS) or equivalent and ID vehicle.
2. Reprogram the powertrain control module (PCM) and transmission control module (TCM) calibration using IDS release 74.03 and higher. This new calibration is not included in the VCM 2011.7 DVD. Calibration files may also be obtained at www.motorcraft.com.
 - a. Calibration updates can be viewed from the tech log view screen on IDS after programming has been completed.

NOTE

THE TCM CANNOT BE INDEPENDENTLY REPROGRAMMED, REPROGRAM USING THE PMI FUNCTION TO ENSURE THAT ENGINE AND TRANSMISSION CALIBRATIONS ARE UPDATED TO THE LATEST LEVEL SIMULTANEOUSLY.

NOTE

IT IS CRITICAL THAT TCM KEEP ALIVE MEMORY (KAM) BE CLEARED FOR THIS PROCEDURE TO BE FULLY EFFECTIVE.

3. Clear TCM KAM and adaptive tables.
 - a. Using IDS:

NOTE: The information in Technical Service Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers". Do not assume that a condition described affects your car or truck. Contact a Ford or Lincoln dealership to determine whether the Bulletin applies to your vehicle. Warranty Policy and Extended Service Plan documentation determine Warranty and/or Extended Service Plan coverage unless stated otherwise in the TSB article. The information in this Technical Service Bulletin (TSB) was current at the time of printing. Ford Motor Company reserves the right to supersede this information with updates. The most recent information is available through Ford Motor Company's on-line technical resources.

- (1) Open Toolbox
 - (2) Choose Powertrain
 - (3) Choose Reset KAM
 - (4) Choose TCM
- b. Using PDS:
- (1) Choose all Tests and Calibrations
 - (2) Scroll down the menu and choose reset TCM KAM

NOTE

FOR PDS, RESET TCM KAM IS NOT THE SAME AS CLEAR TRANSMISSION ADAPTIVE TABLES, WHICH IS UNDER THE POWERTRAIN - TRANSMISSION MENU TREE.

NOTE

DISCONNECTING THE BATTERY WILL NOT CLEAR THE TCM KAM. IT IS CRITICAL THAT TCM KAM BE CLEARED PRIOR TO RELEARNING THE ADAPTIVE TABLES FOR THE TRANSMISSION.

NOTE

DO NOT CLEAR THE PCM KAM.

4. Verify that the transmission fluid temperature (TFT) PID is above 175 °F (80 °C). If it is not at 175 °F (80 °C), drive unit approximately 5 Km (3 miles) to reach temperature.

NOTE

TFT MUST BE AT 175 °F (80 °C) OR ABOVE BEFORE PROCEEDING TO STEP 5.

NOTE

PERFORM ADAPTIVE SHIFT STRATEGY LEARN ON LEVEL SURFACE ROAD.

TSB 11-8-12 (Continued)

5. Drive unit to perform adaptive shift strategy learn.
 - a. Accelerate from a stopped position with light throttle to 24 Km/h (15 MPH) and remove foot from accelerator pedal.
 - b. Brake very gently to a complete stop (allow at least six (6) seconds).
 - c. Repeat steps (a-b) five (5) times in the dealership parking lot or similar setting.
 - d. Accelerate from rest with light throttle ensuring that the 1-2, 2-3 and 3-4 shifts occur at engine speeds between 1700-2000 RPM.
 - e. Continue to accelerate until you achieve 80 Km/h (50 MPH) or the 5-6 upshift.
 - f. Brake gently to a complete stop and hold foot on brake for ten (10) seconds.
 - g. Repeat steps (d-f) three (3) times.

NOTE

SEVERAL DAYS OF DRIVING ARE REQUIRED FOR THE TRANSMISSION TO FULLY ADAPT.

NOTE

PLEASE ADVISE THE CUSTOMER THAT THIS VEHICLE IS EQUIPPED WITH AN ADAPTIVE TRANSMISSION SHIFT STRATEGY WHICH ALLOWS THE VEHICLE'S COMPUTER TO LEARN THE TRANSMISSION'S UNIQUE PARAMETERS AND IMPROVE SHIFT QUALITY. WHEN THE ADAPTIVE STRATEGY IS RESET, THE COMPUTER WILL BEGIN A RE-LEARNING PROCESS. THIS RE-LEARNING PROCESS MAY RESULT IN FIRMER THAN NORMAL UPSHIFTS AND DOWNSHIFTS FOR SEVERAL DAYS.

WARRANTY STATUS: Eligible Under Provisions Of New Vehicle Limited Warranty Coverage
IMPORTANT: Warranty coverage limits/policies are not altered by a TSB. Warranty coverage limits are determined by the identified causal part.

OPERATION	DESCRIPTION	TIME
110812A	2009-2010 F-150, 2009-2011 Expedition, Navigator: Reprogram The PCM And TCM, Includes Time To Perform Adaptive Shift Strategy Learn (Do Not Use With Any Other Labor Operation)	1.0 Hr.

DEALER CODING

BASIC PART NO.
 RECAL

CONDITION
 CODE
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